

What is claimed is:

1. A device environment configuration system, comprising:

a device environment duplication means for automatically replicating device environment configuration information to a specific system,

wherein the device environment configuration information is specific information contained in system configuration information managed by an operating system of a host computer development system used to develop a software application program to be run on the specific system to achieve specific functions.

2. The device environment configuration system of claim 1, wherein the device environment duplication means comprises:

a same settings generating means for generating settings identical to the device environment settings of the host computer development system based on the device environment settings of the development system recorded to the data storage medium;

a system-specific settings generating means for generating system-specific settings that differ according to the specific system based on system configuration information managed by the host computer of the specific system; and

a settings storage means for storing the same settings generated by the same settings generating means and the system-specific settings generated by the system-specific settings generating means in the system configuration information of the specific system as device environment settings for the specific system.

3. The device environment configuration system of claim 2, wherein the same settings generating means comprises:

means for using device environment configuration information of the development system recorded to the data storage medium as the same settings information without editing; and

means for obtaining the same settings information from the device environment configuration information of the development system recorded to the data storage medium, except for information that changes based on the hardware specifications of the host computer of the specific system.

4. The device environment configuration system of claim 2, wherein the system-specific settings generating means comprises:

an interface identification number detecting means for detecting the interface whereby a specific device in the specific system configuration is connected to the specific system and detecting the identification number of the detected interface.

5. The device environment configuration system of claim 4, wherein the interface detected by the interface identification number detecting means is a USB interface.

6. The device environment configuration system of claim 1, further comprising:

a device environment configuration information storage means for recording and storing device environment configuration information in the development system configuration information managed by the operating system of the development system host computer to a data storage medium.

7. The device environment configuration system of claim 6, wherein the device environment configuration information storage means comprises:

a data selection means for specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium;

a device information detection means for finding the settings selected by the data selection means from the device environment configuration information; and

a device information recording means for recording the settings found by the device information detection means to the specific data storage medium.

8. The device environment configuration system of claim 7, wherein the settings specified by the data selection means is all information in the device environment configuration information.

9. The device environment configuration system of claim 7, wherein the settings specified by the data selection means is device information for one or a plurality of devices in the device environment.

10. The device environment configuration system of claim 7, wherein the settings specified by the data selection means is device information for a desired device in the device environment, and device information for all devices connected to the desired device by a specific connection method.

11. A device environment configuration method, comprising:
automatically replicating device environment configuration information to a specific system,

wherein the device environment configuration information is specific information contained in system configuration information managed by an operating system of a host computer development system used that develops a software application program to be run on the specific system to achieve specific functions.

12. The device environment configuration method of claim 11, wherein the device environment duplication step comprises:

(a) generating settings identical to the device environment settings of the host computer development system based on the device environment settings of the development system recorded to the data storage medium;

(b) generating system-specific settings that differ according to the specific system based on system configuration information managed by the host computer of the specific system; and

(c) storing the same settings generated by step (a) and the system-specific settings generated by step (b) in the system configuration information of the specific system as device environment settings for the specific system.

13. The device environment configuration method of claim 12, wherein generating settings identical to the device environment settings of the host computer development system based on the device environment settings of the development system recorded to the data storage medium, comprises:

using device environment configuration information of the development system recorded to the data storage medium as the same settings information without editing; and

using the device environment configuration information of the development system recorded to the data storage medium as the same settings information, except for information that changes based on the hardware specifications of the host computer of the specific system.

14. The device environment configuration method of claim 12, wherein generating system-specific settings that differ according to the specific system based on system configuration information managed by the host computer of the specific system, comprises:

detecting an interface whereby a specific device in the specific system configuration is connected to the specific system; and

detecting the identification number of the detected interface.

15. The device environment configuration method of claim 14, wherein the detected interface is a USB interface.

16. The device environment configuration method of claim 11, further comprising:

(d) recording and storing device environment configuration information in the development system configuration information managed by the operating system of the development system host computer to a data storage medium.

17. The device environment configuration method of claim 16, wherein recording and storing device environment configuration information in the development system configuration information managed by the operating system of the development system host computer to a data storage medium, comprises:

specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium;

finding the settings from the device environment configuration information; and

recording the settings to the specific data storage medium.

18. The device environment configuration method of claim 17, wherein specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

specifying all information in the device environment configuration information to be recorded to the data storage medium.

19. The device environment configuration method of claim 17, wherein specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

specifying device information for one or a plurality of devices in the device environment configuration information to be recorded to the data storage medium.

20. The device environment configuration method of claim 17, wherein specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

specifying device information for a desired device in the device environment, and device information for all devices connected to the desired device by a specific connection method to be recorded to the data storage medium.

21. A computer program product that executes a device environment configuration method, the computer program product comprising a data storage medium having computer-readable program code embodied therein, the computer program product comprising:

computer-readable program code that is configured to automatically replicate device environment configuration information to a specific system,

wherein the device environment configuration information is specific information contained in system configuration information managed by an operating system of a host computer development system used to develop a software application program to be run on the specific system to achieve specific functions.

22. The computer program product of claim 21, wherein the computer-readable program code that is configured to automatically replicate device environment configuration information to a specific system, comprises:

(a) computer-readable program code that is configured to generate settings identical to the device environment settings of the host computer development system based on the device environment settings of the development system recorded to the data storage medium;

(b) computer-readable program code that is configured to generate system-specific settings that differ according to the specific system based on system configuration information managed by the host computer of the specific system; and

(c) computer-readable program code that is configured to store the same settings generated by step (a) and the system-specific settings generated by step (b) in the system configuration information of the specific system as device environment settings for the specific system.

23. The computer program product of claim 22, wherein computer-readable program code that is configured to generate settings identical to the device environment settings of the host computer development system based on the device environment settings of the development system recorded to the data storage medium, comprises:

computer-readable program code that is configured to use device environment configuration information of the development system recorded to the data storage medium as the same settings information without editing; and

computer-readable program code that is configured to use the device environment configuration information of the development system recorded to the data storage medium as the same settings information, except for information that changes based on the hardware specifications of the host computer of the specific system.

24. The computer program product of claim 22, wherein computer-readable program code that is configured to generate system-specific settings that differ according to the specific system based on system configuration information managed by the host computer of the specific system, comprises:

computer-readable program code that is configured to detect an interface whereby a specific device in the specific system configuration is connected to the specific system, and detect the identification number of the detected interface.

25. The computer program product of claim 24, wherein the detected interface is a USB interface.

26. The computer program product of claim 21, further comprising:

(d) computer-readable program code that is configured to record and store device environment configuration information in the development system

configuration information managed by the operating system of the development system host computer to a data storage medium.

27. The computer program product of claim 26, wherein computer-readable program code that is configured to record and store device environment configuration information in the development system configuration information managed by the operating system of the development system host computer to a data storage medium, comprises:

computer-readable program code that is configured to specify one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium;

computer-readable program code that is configured to find the settings from the device environment configuration information; and

computer-readable program code that is configured to record the settings to the specific data storage medium.

28. The computer program product of claim 27, wherein computer-readable program code that is configured to specify one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

computer-readable program code that is configured to specify all information in the device environment configuration information to be recorded to the data storage medium.

29. The computer program product of claim 27, wherein computer-readable program code that is configured to specify one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

computer-readable program code that is configured to specify device information for one or a plurality of devices in the device environment configuration information to be recorded to the data storage medium.

30. The computer program product of claim 27, wherein computer-readable program code that is configured to specify one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

computer-readable program code that is configured to specify device information for a desired device in the device environment, and device information for all devices connected to the desired device by a specific connection method to be recorded to the data storage medium.

31. A device environment configuration program that configures an operating environment of a second system based on device environment configuration information recorded to a data storage medium from system configuration information managed by an operating system of a first system host computer, comprising:

executable commands that install a device driver object to the second system host computer based on information indicating the storage location of the device driver object contained in the device environment configuration information recorded to the data storage medium.

executable commands that paste the device environment configuration information recorded to the data storage medium to or as the device environment configuration information in the system configuration information managed by the second system host computer; and

executable commands that update the pasted device environment configuration information to system-specific information based on information specific to the second system contained in the system configuration information managed by the operating system of the second system host computer.

32. The device environment configuration program of claim 31, wherein the device driver object comprises:

a first object, wherein the first object provides an interface for a class of devices to an application program; and

a second object, wherein the second object provides an interface for a particular device to the first object.

33. The device environment configuration program of claim 32, wherein the system is a POS terminal system, the device driver object is an OPOS object, the first object is a control object, and the second object is a service object.

34. A device environment configuration system, comprising:
a device environment duplication unit adapted to automatically replicate device environment configuration information to a specific system,
wherein the device environment configuration information is specific information contained in system configuration information managed by an operating system of a host computer development system used to develop a software application program to be run on the specific system to achieve specific functions.

35. The device environment configuration system of claim 34, wherein the device environment duplication unit comprises:

a same settings generating unit adapted to generate settings identical to the device environment settings of the host computer development system based on the device environment settings of the development system recorded to the data storage medium;

a system-specific settings generating unit adapted to generate system-specific settings that differ according to the specific system based on system configuration information managed by the host computer of the specific system; and

a settings storage unit adapted to store the same settings generated by the same settings generating unit and the system-specific settings generated by the system-specific settings generating unit in the system configuration information of the specific system as device environment settings for the specific system.

36. The device environment configuration system of claim 35, wherein the same settings generating unit, comprises:

a first unit adapted to use device environment configuration information of the development system recorded to the data storage medium as the same settings information without editing; and

a second unit adapted to obtain the same settings information from the device environment configuration information of the development system recorded to the data storage medium, except for information that changes based on the hardware specifications of the host computer of the specific system.

37. The device environment configuration system of claim 35, wherein the system-specific settings generating unit, comprises:

an interface identification number detecting unit adapted to detect the interface whereby a specific device in the specific system configuration is connected to the specific system and to detect the identification number of the detected interface.

38. The device environment configuration system of claim 37, wherein the interface detected by the interface identification number detecting unit is a USB interface.

39. The device environment configuration system of claim 34, further comprising:

a device environment configuration information storage unit adapted to record and store device environment configuration information in the development system configuration information managed by the operating system of the development system host computer to a data storage medium.

40. The device environment configuration system of claim 39, wherein the device environment configuration information storage unit comprises:

a data selection unit adapted to specify one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium;

a device information detection unit adapted to find the settings selected by the data selection unit from the device environment configuration information; and

a device information recording unit adapted to record the settings found by the device information detection unit to the specific data storage medium.

41. The device environment configuration system of claim 40, wherein the settings specified by the data selection unit is all information in the device environment configuration information.

42. The device environment configuration system of claim 40, wherein the settings specified by the data selection unit is device information for one or a plurality of devices in the device environment.

43. The device environment configuration system of claim 40, wherein the settings specified by the data selection unit is device information for a desired device in the device environment, and device information for all devices connected to the desired device by a specific connection method.

44. A data storage medium having computer-executable instructions for performing steps of a device environment configuration method, the device environment configuration method, comprising:

automatically replicating device environment configuration information to a specific system,

wherein the device environment configuration information is specific information contained in system configuration information managed by an operating system of a host computer development system used to develop a

software application program to be run on the specific system to achieve specific functions.

45. The data storage medium of claim 44, wherein the device environment duplication step, comprises:

(a) generating settings identical to the device environment settings of the host computer development system based on the device environment settings of the development system recorded to the data storage medium;

(b) generating system-specific settings that differ according to the specific system based on system configuration information managed by the host computer of the specific system; and

(c) storing the same settings generated by step (a) and the system-specific settings generated by step (b) in the system configuration information of the specific system as device environment settings for the specific system.

46. The data storage medium of claim 45, wherein generating settings identical to the device environment settings of the host computer development system based on the device environment settings of the development system recorded to the data storage medium, comprises:

using device environment configuration information of the development system recorded to the data storage medium as the same settings information without editing; and

using the device environment configuration information of the development system recorded to the data storage medium as the same settings information, except for information that changes based on the hardware specifications of the host computer of the specific system.

47. The data storage medium of claim 45, wherein generating system-specific settings that differ according to the specific system based on system configuration information managed by the host computer of the specific system, comprises:

detecting an interface whereby a specific device in the specific system configuration is connected to the specific system; and
detecting the identification number of the detected interface.

48. The data storage medium of claim 47, wherein the detected interface is a USB interface.

49. The data storage medium of claim 44, further comprising:

(d) recording and storing device environment configuration information in the development system configuration information managed by the operating system of the development system host computer to a data storage medium.

50. The data storage medium of claim 49, wherein recording and storing device environment configuration information in the development system configuration information managed by the operating system of the development system host computer to a data storage medium, comprises:

specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium;

finding the settings from the device environment configuration information; and

recording the settings to the specific data storage medium.

51. The data storage medium of claim 50, wherein specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

specifying all information in the device environment configuration information to be recorded to the data storage medium.

52. The data storage medium of claim 50, wherein specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

specifying device information for one or a plurality of devices in the device environment configuration information to be recorded to the data storage medium.

53. The data storage medium of claim 50, wherein specifying one or a plurality of settings in the device environment configuration information to be recorded to the data storage medium, comprises:

specifying device information for a desired device in the device environment, and device information for all devices connected to the desired device by a specific connection method to be recorded to the data storage medium.